

BS
Please replace the second full paragraph on page 19 with the following paragraph:

Salt spray corrosion data (Table 12) shows no noticeable differences either for both PDO derived and NPG control powder coatings. This test was performed via exposure in a chamber to 5 percent sodium chloride solution at a temperature of 35°C for 1000 hours over cold rolled steel panels (S-36 from Q Panel).

Remarks

The above amendments are requested to change minor typographic errors in the specification. A marked up copy of these paragraphs is attached hereto. The Applicants will also later send a letter to the draftsman which requests that the drawings be amended by substituting a revised Figure 4 for Figure 4 as filed. The changes are necessary to make the legends in the figure correspond to the legends in Table 8 which has the data from which Figure 4 was plotted.

Table 8 has been changed to delete the duplicate column PT-30 which currently is the file right hand column of the table. Table 8 has also been amended to change the designation of the column just to the left of the deleted column from PT-30 to PT-15. It is clear by reference to Figure 4 that this last change is correct and is supported by the specification as filed.

Respectfully submitted,

SHELBY F. THAMES, OLIVER W. SMITH,
LICHANG ZHOU, WYNDHAM H. BOON,
THOMAS C. FORSCHNER, and
DAVID E. GWYN

By *Donald F. Haas*

Their Attorney, Donald F. Haas
Registration No. 26,177
(713) 241-3356

P.O. Box 2463
Houston, Texas 77252-2463

APPENDIX

In the Specification:

Pages 4 and 5, bridging paragraph:

The starting materials for the present invention are aliphatic diols, [an] aromatic dicarboxylic acids, a triglycidyl isocyanurate crosslinking agent, 1,3-propanediol, and optionally conditioning agents, auxiliary agents and other conventional catalysts and additives.

Pages 9 and 10, bridging paragraph:

Polyester powder coatings prepared from PDO derived polyesters were formulated with triglycidyl isocyanurate resin via equal equivalents of carboxyl/epoxy groups. For the compositions of this invention the molar ratio of epoxy to carboxyl is in the range of 0.5/1 to 6/1. PT-810 (TGIC) triglycidyl isocyanurate resin from Ciba Geigy Corp. was used as a crosslinking agent for the polyesters. Choline chloride (0.18%, Actiron CT-6 from Synthron, Inc.) was used as a catalyst. Flow control agent (Modaflow Powder III from Monsanto) and degassing agent benzoin (Uraflow-B from GCA Chemical Corporation) were also incorporated into the coatings. Pigmented powder coatings based on R-960 TiO₂ (DuPont) at a pigment/binder ratio of 0.7/1 by weight were also evaluated. The final powder coating compositions are listed in Table 2.

Please replace Table 2 which appears on page 10 with the following table.

Table 2. Powder Coatings Formulations

Ingredients (wt%)	T-00	T-15	T-30	T-50	T-100	PT-00	PT-15	PT-30
TE00	91.13	----	----	----	----	54.55	----	----
TE15	----	91.70	----	----	----	----	54.89	----
TE30	----	----	91.73	----	----	----	----	54.91
TE50	----	----	----	91.26	----	----	----	----
TE100	----	----	----	----	91.35	----	----	----
TGIC PT-810	7.11	6.54	6.51	6.98	6.90	4.26	3.91	3.90
DuPont R-960 TiO ₂	----	----	----	----	----	39.40	39.40	39.40
Choline Chloride	0.18	0.18	0.18	0.18	0.18	0.12	0.12	0.12
Modaflow Powder III	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
Benzoin	0.40	0.40	0.40	0.40	0.40	0.50	0.50	0.50
Total	100	100	100	100	100	100	100	100

Please replace Table 8 which appears on page 16 with the following new table:

Table 8. Front/Reverse Impact Resistance of Polyester/TGIC Powder Coatings

Film Thickness (mil) (mm)	T-00 (in.lb) (N·m)	T-30 (in.lb) (N·m)	T-30 (in.lb) (N·m)	T-50 (in.lb) (N·m)	PT-00 (in.lb) (N·m)	PT-15 (in.lb) (N·m)	PT-30 (in.lb) (N·m)
1.4-1.6 (0.036-0.041)	---	---	---	---	130/130 (14.7/14.7)	160/160 (18.1/18.1)	160/160 (18.1/18.1)
1.8-2.0 (0.046-0.051)	160/160 (18.1/18.1)	160/160 (18.1/18.1)	160/160 (18.1/18.10)	160/160 (18.1/18.1)	---	---	---
1.9-2.2 (0.048-0.056)	---	---	---	---	100/90 (11.3/10.7)	160/160 (18.1/18.1)	160/160 (18.1/18.1)
2.2-2.4 (0.056-0.061)	140/140 (15.8/15.8)	160/160 (18.1/18.1)	160/160 (18.1/18.1)	160/160 (18.1/18.1)	---	---	---
2.4-2.6 (0.061-0.066)	---	---	---	---	80/60 (9.0/6.7)	160/160 (18.1/18.1)	160/160 (18.1/18.1)
2.6-2.9 (0.066-0.074)	110/100 (12.4/11.3)	160/160 (18.1/18.1)	160/160 (18.1/18.1)	160/160 (18.1/18.1)	---	---	---
3.3-3.5 (0.084-0.089)	60/30 (6.7/3.4)	100/80 (11.3/9.0)	130/130 (14.7/14.7)	160/160 (18.1/18.1)	---	---	---

Page 19, second full paragraph:

Salt spray corrosion data (Table 12) shows no noticeable differences either for both PDO derived and NPG control powder coatings. This test was performed via exposure in a chamber to 5 percent sodium chloride solution at a temperature of 35°C for 1000 hours over cold rolled steel [panes] panels (S-36 from Q Panel).